

Mainsail: 7000708 Chris-1 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000708 Chris\70007

Initial Design Date: 10/7/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 10.018m
Leech geodesic: 10.526m
Foot geodesic: 3.366m
Head geodesic: 0.130m
Upper width (MUW): 0.680m
Three-quarter width (MTW): 1.249m
Half width (MHW): 2.270m
Quarter width (MQW): 2.982m
Foot median: 10.246m
ORC Mainsail area: 20.645m?
Surface area: 21.296m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.883%	1.030m	0.209m	73.500?	8.097m	8.477m	Full
61.106%	1.920m	0.390m	73.461?	6.118m	6.404m	Full
41.357%	2.610m	0.433m	73.554?	4.138m	4.334m	Full
21.615%	3.080m	0.317m	73.638?	2.157m	2.265m	Full

Reefing Points

- 1, Luff: 1.820m ; Leech: 1.820m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 2.800m ; Leech: 2.800m ; Offset: 0.000m ; Number Eyelets: 1
- 3, Luff: 3.800m ; Leech: 3.610m ; Offset: 0.000m ; Number Eyelets: 1
- 4, Luff: 5.900m ; Leech: 5.407m ; Offset: 0.000m ; Number Eyelets: 1

Draft Stripes

- 1, Luff: 3.305m ; Leech: 3.299m ;
- 2, Luff: 6.611m ; Leech: 6.775m ;

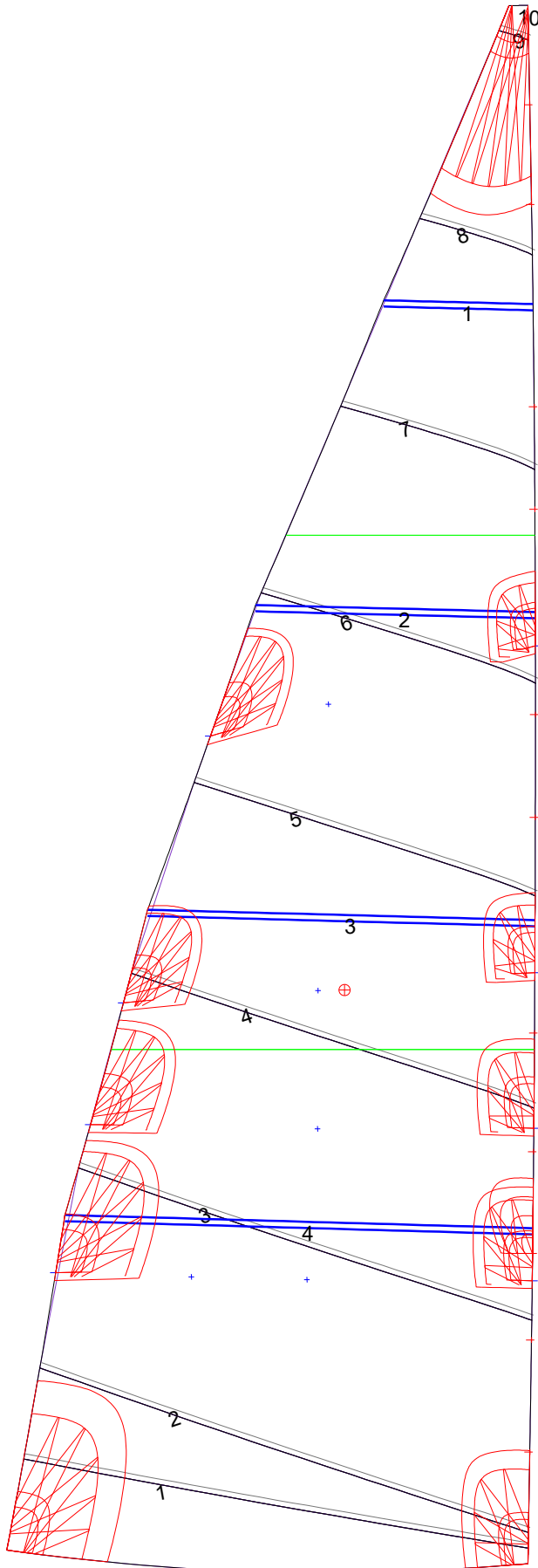
Luff Slides

- 1, Position: 0.719m
- 2, Position: 1.438m
- 3, Position: 2.649m
- 4, Position: 3.412m
- 5, Position: 4.798m
- 6, Position: 5.458m
- 7, Position: 6.778m
- 8, Position: 7.438m
- 9, Position: 8.738m
- 10, Position: 9.378m

Luff Curve

		Fanned Luff (@ 5.00% [0.168m])	Before BSeam
10.018m,	0.000m	100% (10.018m) :	0.000m
8.769m,	-0.023m	90% (9.016m) :	0.012m
7.513m,	-0.040m	80% (8.014m) :	0.023m
6.254m,	-0.047m	70% (7.013m) :	0.029m
5.009m,	-0.048m	60% (6.011m) :	0.031m
3.733m,	-0.044m	50% (5.009m) :	0.030m
2.504m,	-0.035m	40% (4.007m) :	0.028m
1.248m,	-0.020m	30% (3.005m) :	0.023m
0.000m,	0.000m	20% (2.004m) :	0.017m
		10% (1.002m) :	0.009m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.035m	0.035m	0.035m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	19.44
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	21.29	1,2,3,4,5 6,7,8,9,10